

HISTORY KEPT YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		ILLINOIS HIGHWAY INFORMATION SYSTEM STRUCTURE INFORMATION AND PROCEDURE MANUAL	
NBIS REQUIRED YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		ITEM NAME RAILING APPRAISAL (APPROACH GUARDRAILS)	ITEM NO. 36B,C,D PAGE 1 of 2 EFF. DATE 07/01/02
		ISIS	MMIS
RESPONSIBLE FOR UPDATE	District Local Roads	District Maintenance	
STRUCTURES	Local	State	
UPDATE SCREENS	(12) Inspection/Appraisals	(2) Inspection	
INQUIRY SCREENS	(4) Inspection/Appraisals	(2) Inspection	

DESCRIPTION AND PURPOSE OF ITEM

These items are components of the approach guardrail and are traffic safety features which are to be evaluated for their ability to safely redirect errant vehicles.

- 36B Transitions: The transition from approach guardrail to bridge railing requires that the approach guardrail be firmly attached to the bridge railing. It also requires that the approach guardrail be gradually stiffened as it comes closer to the bridge railing. The ends of curbs and safety walks need to be gradually tapered out or shielded.
- 36C Approach guardrail: The structural adequacy and compatibility of approach guardrail with transition designs should be determined. Rarely does the need for a barrier stop at the end of a bridge. Thus, an approach guardrail with adequate length and structural qualities to shield motorists from the hazards at the bridge site needs to be installed. In addition to being capable of safely redirecting an impacting vehicle, the approach guardrail must also facilitate a transition to the bridge railing that will not cause snagging or pocketing of an impacting vehicle.
- 36D Approach guardrail ends: As with guardrail ends in general, the ends of approach guardrails to bridges should be flared, buried, made breakaway or shielded.

Guardrails shall be evaluated in reference to the route on the bridge. Collision damage or deterioration of the elements are not considered when coding this item. The IDOT Highway Standards Manual should be referred to for satisfactory guardrail details. Acceptable guardrail design criteria are contained in the current AASHTO Guide for Selecting, Locating and Designing Traffic Barriers and in the current AASHTO Roadside Design Guide.

History is retained for these items based on each Inspection Date - Item 90.

CODE AND SCREEN ENTRY INSTRUCTIONS

A three-digit field: one for each Item 36B, 36C, 36D. Enter the appropriate codes in the second, third and fourth positions, respectively, of the four-digit field provided for "Railing Appraisal."

**ILLINOIS HIGHWAY INFORMATION SYSTEM
STRUCTURE INFORMATION AND PROCEDURE MANUAL**

ITEM NAME	RAILING APPRAISAL (APPROACH GUARDRAILS)	ITEM NO.	36B,C,D
		PAGE	2 of 2
		EFF. DATE	07/01/02

Code

Description

- | | |
|---|---|
| N | Not applicable/or safety feature not required |
| 1 | No guardrail |
| 2 | Guardrail does not meet currently acceptable AASHTO standards |
| 3 | Guardrail meets currently acceptable AASHTO standards |